

Governments Working Together to Save Energy.

The Super-efficient Equipment and Appliance Deployment (SEAD) Initiative

An Initiative of the Clean Energy Ministerial (CEM) and a task of the International Partnership for Energy Efficiency Cooperation (IPEEC)







Overview

- ⇒ Teaser video
- □ Introduce the major work programs of the SEAD initiative
- ⇒ Highlight potential China-SEAD activities
- ⇒ G20 Energy Efficiency Leading Programme



Webinar on U.S. Standards Program: October 28

- Outcome of 2015 US-China Energy Efficiency Forum
- Webinar will the requirements (general rules) for testing these products and the requirements for submitting compliance certification reports
- Ask questions and get answers directly from DOE



A Global Initiative: SEAD governments work together to save energy



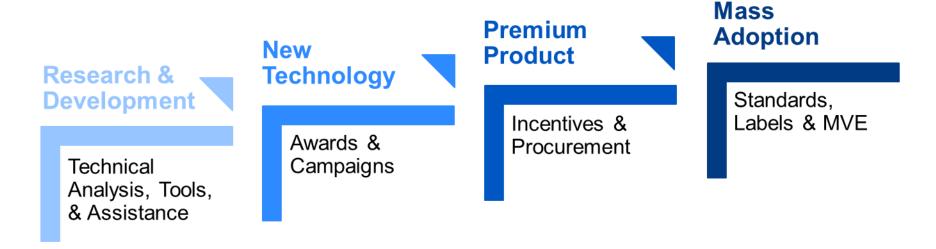


Foster Global Collaboration & Partnership





Strengthen Product Energy Efficiency Policies



SEAD accelerates the market towards energy efficient products



Using Complementary Strategies

Research & Analysis



Implementation & Training

Dialogue & Collaboration



Key Program Strategies

Research & Analysis

Research Projects

Tool Development

Technical analysis

Implementation & Training

Running Awards & Campaigns

Workshops

Trainings

Dialogue & Collaboration

SEAD Policy Exchange Forum

Government & Initiative Collaborations

Conferences



China & SEAD

Test laboratory benchmarking for TVs (2012)

 Global winner electric motor efficiency medal 2014: Nanyang Explosion Protection Group

(南阳防爆集团)

Representatives from
Nanyang Explosion
Protection Group (南阳防爆集团) receive SEAD
Global Efficiency Medal
for Electric Motors from
Minister Wan Gang at
CEM6 in Mexico (2015)





China & SEAD

- Test laboratory benchmarking for TVs (2012)
- Global winner electric motor efficiency medal 2014: Nanyang Explosion Protection Group (南阳防爆集团)
- Regional winner lighting medal 2015: Xiamen Yankon Energetic Lighting Company, Limited
- CNIS presented new China Energy Label (CEL) with QR code at workshop hosted by IEA and SEAD (2015)



Potential activities with SEAD

Lighting

- SEAD Global Efficiency Medal for Industrial & Outdoor Lighting
- SEAD Street Lighting tool
- CEM Global Lighting Challenge



Space Cooling

CEM Advanced Cooling Campaign



International Platform for Knowledge Sharing

- SEAD Policy Exchange Forum (SPEx)
- Analysis
- Support G20 Energy Efficiency Leading Program



SEAD Industrial and Outdoor Lighting Award

- Launched at CEM7.
- Nominations opened September 12
- International winners will be recognized in award ceremony at CEM8 in Beijing
- By joining SEAD, China could oversee its own award region; current award regions include Europe, India, and North America







SEAD Awards for industrial and outdoor lighting products

Add China as an award region!

	Classes	Regional Awards				
Category		CHINA	EUROPE	INDIA	NORTH AMERICA	AWARDS
High-Bay and Low-Bay Luminaires	2500 to <15,000 lumens 2700 to <3500K CCT	٠	•	•	•	•
	2500 to <15,000 lumens 3500 to <5000K CCT	٠	•	•	•	•
	2500 to <15,000 lumens 5000 to 6500K CCT	•	•	•	•	•
	≥15,000 lumens 2700 to <3500K CCT	•	•	•	•	•
	≥15,000 lumens 3500 to <5000K CCT	•	•	•	•	•
	≥15,000 lumens 5000 to 6500K CCT	•	•	•	•	•
Street Lighting Luminaires	2500 to <10,000 lumens 2700 to <3500K CCT	•	•	•	•	•
	2500 to <10,000 lumens 3500 to <5000K CCT	•	•	•	•	•
	2500 to <10,000 lumens 5000 to 6500K CCT	•	•	•	•	•
	≥10,000 lumens 2700 to <3500K CCT	•	•	•	•	•
	≥10,000 lumens 3500 to <5000K CCT	•	•	•	•	•
	≥10,000 lumens 5000 to 6500K CCT	•	•	•	•	•



SEAD Street Lighting Procurement

- New structure of SEAD Lighting Awards enables linkages with procurement of products that meet minimum criteria
- SEAD is doing outreach to lighting purchasers to raise awareness and so they consider purchasing award-winning products

- SEAD Street lighting tool addresses barriers to adoption of efficient street lighting
- Free software for analyzing energy use, light quality, and lifecycle costs for roadway lighting fixtures
- Download tool and user guides: <u>www.superefficient.org/sltool</u>





A Clean Energy Ministerial Campaign

A campaign to Deploy 10 Billion High-efficiency Bulbs

- Increased participation among Chinese agencies could provide:
- Stronger engagement with local manufacturers, retailers, and other stakeholders to recruit commitments to the GLC that ensure product performance and quality
- More opportunities to highlight Chinese lighting private sector
- Deeper GLC Working Group participation (monthly calls and requests for feedback on GLC materials)

Through MOST, China has endorsed the GLC and committed to domestic sales of 5 billion products by the end of 2017, with an additional export commitment expected to be announced at CEM7



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CEM Advanced Cooling (AC) Campaign



Concept

Challenge governments and industry to develop and deploy at scale super-efficient, smart, climate friendly and affordable cooling technologies.



Rationale

Improving average efficiency of air conditioners sold in 2030 by 30% could reduce emissions by up to 25 billion tons of CO₂ & reduce peak electricity demand by up to 340-790 GW.



Plan

The campaign launched at the 7th Clean Energy Ministerial, as a cooperative effort between endorsing national and subnational governments, companies, and organizations.



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Space Cooling

CEM Advanced Cooling Campaign



International Platform for Knowledge Sharing

- SEAD Policy Exchange Forum (SPEx)
- Analysis
- Part of G20 Energy Efficiency Leading Program



SEAD Policy Exchange Forum (SPEx)





G20 Energy Efficiency Leading Program

- SEAD is a work stream under the EELP
- First EELP SPEx Webinar: October 27
 - Role of Appliance Efficiency Programmes in Intended Nationally Determined Contributions
 - SEAD Policy Exchange Forum
 - 12:00 14:00 UTC
- In-person workshop to be hosted by IEA
 4E, November 14-15



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Research & Analysis

Research Projects

Tool Development

> Technical Analysis

- Product specific research to support country MEPS & labels development
- Registration database research & development
- Policy modelling tools
- Street Lighting Tool supporting procurement
- Technical analyses on ACs



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Implementation & Training

Running Awards & Campaigns

Workshops

Trainings

- SEAD Global Efficiency Awards & Medal
- Global Lighting Challenge
- ⇒ AC Challenge in India
- Incentives & MVE Workshops to support implementation of S&L program in South Africa
- Training to support Indonesia S&L program



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Dialogue & Collaboration

SEAD Policy Exchange Forum

Government & Initiative Collaborations

Conferences

- ⇒ SPEx calls with SEAD and non-SEAD member countries and stakeholders
- ⇒ Formal Partnership with IEA
 4E, with joint projects and participation in meetings
- ⇒ Presenting SEAD outputs at events, such as ACEEE, ECEEE, IEPPEC, and EEDAL



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China and SEAD

In 2012

To benchmark China's test laboratory capacity against Australia, Europe, India and USA. **CNIS** and TIRT participated in the SEAD Global Efficiency Medal Competition round-robin testing for flatpanel TVs, supported by CLASP.

In 2014

The international winning product for the 2014 SEAD Global Efficiency Medal for motors was manufactured by Nanyang Explosion Protection Group (南阳防爆集团), represented by their products sold in Australia.

In 2015

A regional winner of the 2015 SEAD Global Efficiency Medal for lighting products was manufactured by Xiamen Yankon Energetic Lighting Company, Limited, represented by products sold in Europe and India.

December 2015

CNIS presented on QR code for China Energy Label at SEAD-IEA-IEA4E 21st Century S&L workshop in Paris.

CNIS has been participating in SEAD's International Steering Committee meetings.